

Substitute for form 1449/PTO

(Use as many sheets as necessary)

Complete if Known

Application Number	10/585,474
--------------------	------------

Filing Date	July 7, 2006
-------------	--------------

First Named Inventor	Stropp, Udo
----------------------	-------------

Art Unit	Not yet assigned
----------	-----------------------------

Examiner Name	Not yet assigned	Pohnert
---------------	-----------------------------	---------

Attorney Docket Number	2007674-0025
------------------------	--------------

Sheet	2	Of	5
-------	---	----	---

Examiner
Initials^{*}Cite
No. ¹

Include the name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.

 T^2

/S.P./

Acton et al., "Identification of scavenger receptor SR-BI as a high density lipoprotein receptor", *Science*, **271**: 518, 1999.

/S.P./

Cohen et al., “Emerging technologies for sequencing antisense oligonucleotides: capillary electrophoresis and mass spectrometry”, *Adv. Chromatogr.*, **36**: 127-62, 1996.

/S.P./

Cotton, "Current methods of mutation detection", *Mutat Res.*, **285**: 125-44, 1993.

/S.P./

Database EMBL EBI, “Human DNA sequence contains the TPMT gene 9”, March 9, 2001, Pelan S.: XP002334144, Database accession no. AL589723.

/S.P./

Evans et al., "Altered mercaptopurine metabolism, toxic effects, and dosage requirement in a thiopurine methyltransferase-deficient child with acute lymphocytic leukemia", *J. Pediatr.*, **19**: 985-89, 1991.

/S.P./

Jain, "Nanodiagnostics: application of nanotechnology in molecular diagnostics", *Expert Rev. Mol. Diagn.*, **3**(2): 153-61, 2003.

/S.P./

Gibbs et al., "Detection of single DNA base differences by competitive oligonucleotide priming", *Nucleic Acids Res.*, **17**: 2437-48, 1989.

/S.P./

Griffin et al., "DNA Sequencing: Recent Innovations and Future Trends", *Appl. Biochem. Biotechnol.*, **38**: 147-59, 1993.

/S.P./

Guatelli et al, "Isothermal, *In Vitro* Amplification of Nucleic Acids by a Multienzyme Reaction Modeled After Retroviral Replication", *Proc. Natl. Acad. Sci. USA*, **87**: 1874-78, 1990.

/S.P./

Hayashi, "PCR-SSCP: a method for detection of mutations", *Genet Anal Tech Appl*, **9**: 73-9, 1992.

/S.P./

Keen et al., "Rapid detection of single base mismatches as heteroduplexes on Hydrolink gels", *Trends Genet*, 7: 5, 1991.

/S.P./

Kornher et al., "Mutation detection using nucleotide analogs that alter electrophoretic mobility", *Nucl. Acids. Res.*, **17**: 7779-84, 1989.

/S.P./	Kuppuswamy et al, "Single Nucleotide Primer Extension to Detect Genetic Diseases: Experimental Application to Hemophilia B (factor IX) and Cystic Fibrosis Genes", <i>Proc. Natl. Acad. Sci. USA</i> , 88 : 1143-47, 1991.	
/S.P./	Kwoh et al., "Transcription-based amplification system and detection of amplified human immunodeficiency virus type 1 with a bead-based sandwich hybridization format", <i>Proc. Natl. Acad. Sci. USA</i> , 86 : 1173-77, 1989.	
/S.P./	Landergren et al., "A Ligase-Mediated Gene Detection Technique", <i>Science</i> , 241 : 1077-80, 1988.	
/S.P./	Lee et al., "Allelic discrimination by nick-translation PCR with fluorogenic probes", <i>Nucleic Acids Research</i> , 21 : 3761-66, 1993.	
/S.P./	Lennard et al., "Congenital thiopurine methyltransferase deficiency and 6-mercaptopurine toxicity during treatment for acute lymphoblastic leukaemia", <i>Arch. Dis. Child.</i> , 69 : 577-79, 1993.	
/S.P./	Lennard et al., "Thiopurine pharmacogenetics in leukemia: correlation of erythrocyte thiopurine methyltransferase activity and 6-thioguanine nucleotide concentrations", <i>Clin. Pharmacol. Ther.</i> , 41 : 18-25, 1987.	
/S.P./	Lennard et al., "Pharmacogenetics of acute azathioprine toxicity: relationship to thiopurine methyltransferase genetic polymorphism", <i>Clin. Pharmacol. Ther.</i> , 46 : 149-54, 1989.	
/S.P./	Lennard, "The clinical pharmacology of 6-mercaptopurine", <i>Eur. J. Clin. Pharmacol.</i> , 43 : 329-39, 1992.	
/S.P./	Lennard et al., "Genetic variation in response to 6-mercaptopurine for childhood acute lymphoblastic leukaemia", <i>Lancet</i> , 336 : 225-29, 1990.	
/S.P./	Lizardi et al., "Exponential Amplification of Recombinant- RNA Hybridization Probes", <i>Bio/Technology</i> , 6 : 1197, 1988.	
/S.P./	Maxam et al., "A new method for sequencing DNA", <i>Proc. Natl. Acad. Sci. USA</i> , 74 : 560, 1977.	
/S.P./	McLeod et al., "Polymorphic thiopurine methyltransferase in erythrocytes is indicative of activity in leukemic blasts from children with acute lymphoblastic leukemia", <i>Blood</i> , 85 : 1897-1902, 1995.	
/S.P./	McLeod et al., "Thiopurine methyltransferase activity in American white subjects and black subjects", <i>Clin. Pharmacol. Ther.</i> , 55 : 15-20, 1994.	
/S.P./	McLeod et al., "Azathioprine-induced myelosuppression in thiopurine methyltransferase deficient heart transplant recipient", <i>Lancet</i> , 341 : 1151, 1993.	
/S.P./	McLeod, "Genetic polymorphism of thiopurine methyltransferase and its clinical relevance for childhood acute lymphoblastic leukemia", <i>Leukemia</i> , 14 : 567-72, 2000.	
/S.P./	McLeod et al., "The thiopurine S-methyltransferase gene locus-implications for clinical pharmacogenomics", <i>Pharmacogenomics</i> , Ashley Publications, GB, 3 (1): 89-98, 2002.	
/S.P./	Myers et al, "Detection of single base substitutions in total genomic DNA", <i>Nature</i> , 313 : 495, 1985.	

/S.P./	Naeve et al., "Accuracy of automated DNA sequencing: a multi-laboratory comparison of sequencing results", <i>Biotechniques</i> , 19 : 448, 1995.	
/S.P./	Newton et al., "Analysis of any point mutation in DNA. The amplification refractory mutation system (ARMS)", <i>Nucl. Acids Res.</i> , 17 : 2503-2516, 1989.	
/S.P./	Nickerson et al., "Automated DNA diagnostics using an ELISA-based oligonucleotide ligation assay", <i>Proc. Natl. Acad. Sci USA</i> , 87 : 8923-27, 1990.	
/S.P./	Nyren et al., "Solid phase DNA minisequencing by an enzymatic luminometric inorganic pyrophosphate detection assay", <i>Anal. Biochem.</i> , 208 : 171-5, 1993.	
/S.P./	Orita et al., "Detection of polymorphisms of human DNA by gel electrophoresis as single-strand conformation polymorphisms", <i>Proc. Natl. Acad. Sci. USA</i> , 86 : 2766, 1989.	
/S.P./	Prezant et al., "Trapped-oligonucleotide nucleotide incorporation (TONI) assay, a simple method for screening point mutations", <i>Hum. Mutat.</i> , 1 : 159-64, 1992.	
/S.P./	Prossner et al., "Detecting single-base mutations", <i>Tibtech</i> , 11 : 238, 1993.	
/S.P./	Rosenbaum et al., "Temperature-gradient gel electrophoresis: Thermodynamic analysis of nucleic acids and proteins in purified form and in cellular extracts", <i>Biophys. Chem.</i> , 265 : 1275, 1987.	
/S.P./	Saiki et al., "Analysis of enzymatically amplified β -globin and HLA-DQ α DNA with allele-specific oligonucleotide probes", <i>Nature</i> , 324 : 163, 1986.	
/S.P./	Saiki et al., "Genetic analysis of amplified DNA with immobilized sequence-specific oligonucleotide probes", <i>Proc. Natl. Acad. Sci. USA</i> , 86 : 6230, 1989.	
/S.P./	Sanger et al., "DNA sequencing with chain-terminating inhibitors", <i>Proc. Natl. Acad. Sci. USA</i> , 74 : 5463, 1977.	
/S.P./	Sokolov, "Primer extension technique for the detection of single nucleotide in genomic DNA", <i>Nucl. Acids. Res.</i> , 18 : 3671, 1990.	
/S.P./	Summerton et al., "Morpholino antisense oligomers: design, preparation, and properties", <i>Antisense and Nucleic Acid Drug Development</i> , 7 : 187, 1997.	
/S.P./	Syvanen et al., "Trapped-oligonucleotide nucleotide incorporation (TONI) assay, a simple method for screening point mutations", <i>Genomics</i> , 8 : 684-92, 1990.	
/S.P./	Szumanski et al., "Human liver thiopurine methyltransferase pharmacogenetics: biochemical properties, liver-erythrocyte correlation and presence of isozymes", <i>Pharmacogenetics</i> , 2 : 148-59, 1992.	
/S.P./	Tobe et al., "Single-well genotyping of diallelic sequence variations by a two-color ELISA-based oligonucleotide ligation assay", <i>Nucleic Acids Res.</i> , 24 : 3728, 1996.	x
/S.P./	Ugozzoli et al., "Detection of Specific Alleles by Using Allele-Specific Primer Extension Followed by Capture on Solid Support", <i>GATA</i> , 9 : 107-112, 1992.	
/S.P./	Van Loon et al., "Thiopurine methyltransferase biochemical genetics: human lymphocyte activity", <i>Biochem. Genet.</i> , 20 : 637-58, 1982.	

/Steven Pohnert/ (06/30/2010)

/S.P./	Wallace et al., "Hybridization of synthetic oligodeoxyribonucleotides to phi chi 174 DNA: the effect of single base pair mismatch", <i>Nucl. Acids Res.</i> , 6 : 3543, 1979.	10585474 - GAU: 1634
/S.P./	Weinshiboum et al., "Mercaptopurine pharmacogenetics: monogenic inheritance of erythrocyte thiopurine methyltransferase activity", <i>Am. J. Hum. Genet.</i> , 32 : 651-662, 1980.	
/S.P./	International Search Report, PCT/EP2005/000064, date of issuance July 10, 2006.	

Examiner Signature	/Steven Palmer/ (06/30/2010)	Date Considered	
-----------------------	------------------------------	--------------------	--

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 2313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.